

ABSTRACT OF THE DISCLOSURE

A magnetic recording and reading device having a transfer rate of not less than 50 MB/s includes a magnetic recording medium having an absolute value of normalized noise coefficient per recording density of not more than 2.5×10^{-8} $(\mu V_{rms})(inch)(\mu m)^{0.5}/(\mu V_{pp})$, and magnetic head which is mounted on an integrated circuit suspension so that a total inductance is reduced to be not more than 65nH and having a magnetic core which is not more than 35 μm of length, wherein a part of the magnetic core being formed by a magnetic film having a resistivity exceeding at least 50 $\mu\Omega cm$ or by a multilayer film consisting of a magnetic film and an insulating film. The device also includes a fast R/W-IC having a line width of not more than 0.35 μm which is installed in a position within 2 cm from a rear end of the magnetic head.